

#5

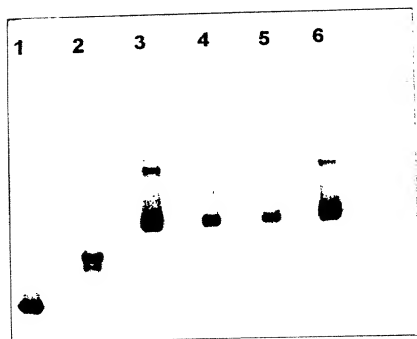


FIG. 1

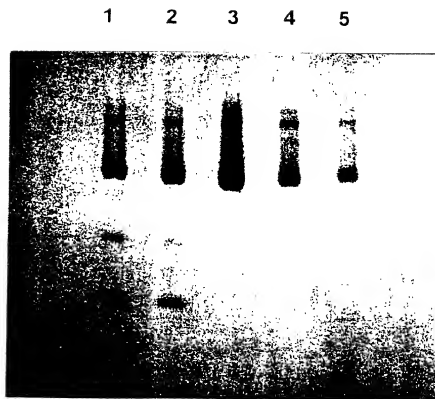


FIG. 2

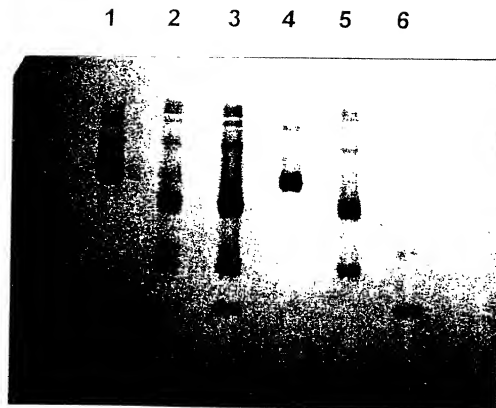


FIG. 3

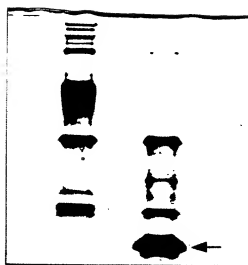


FIG. 4

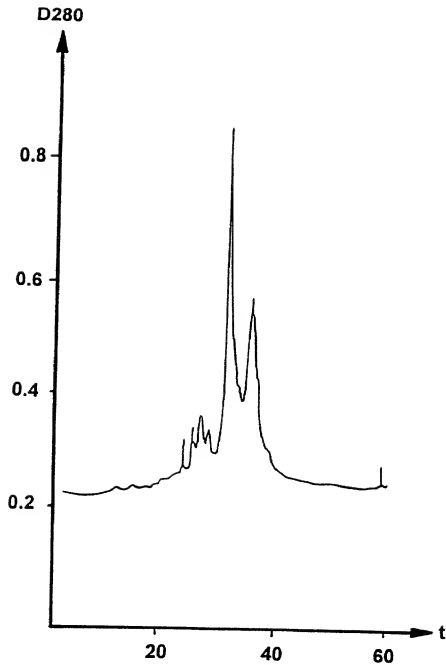


FIG. 5

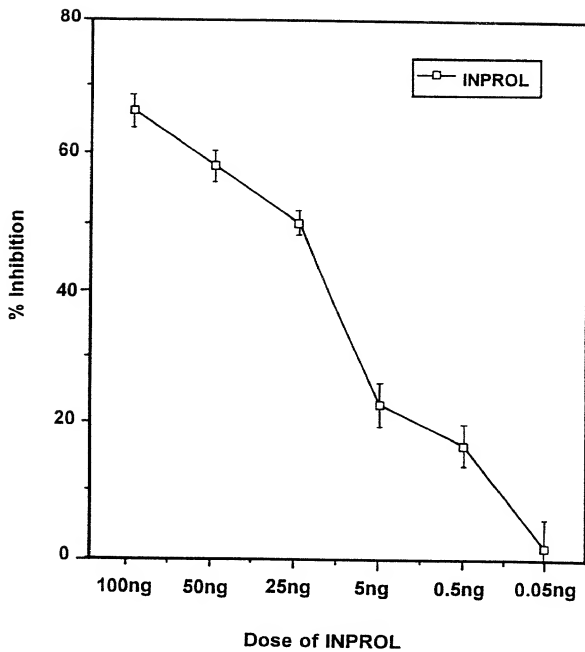


FIG. 6

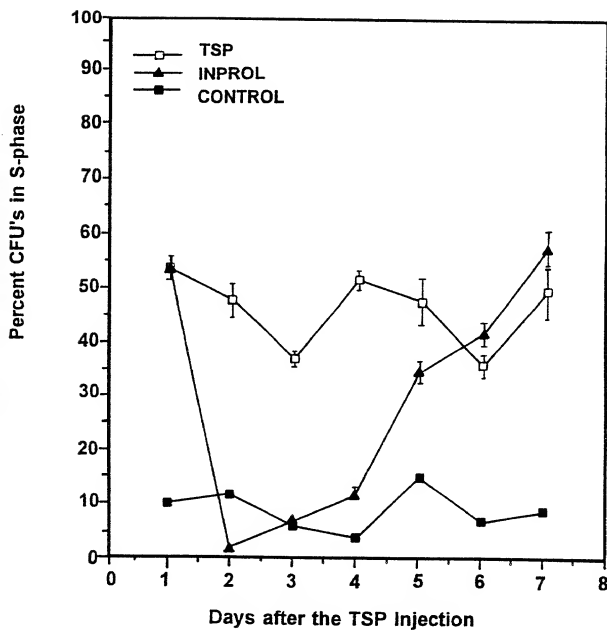
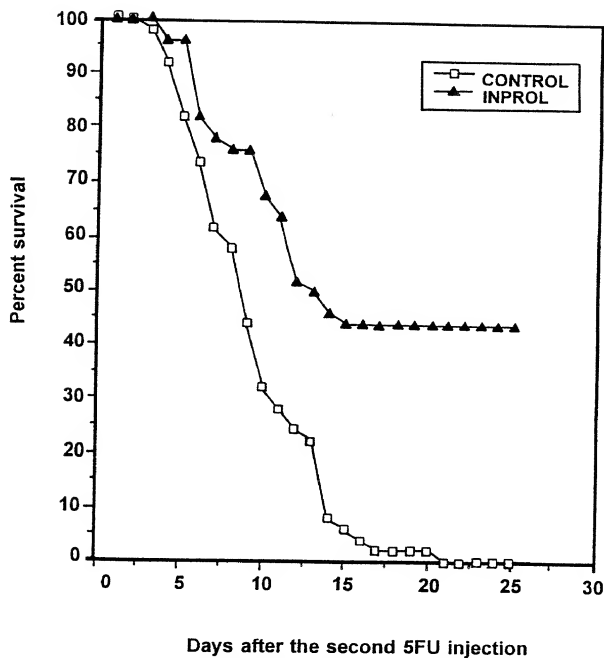


FIG. 7

FIG. 8



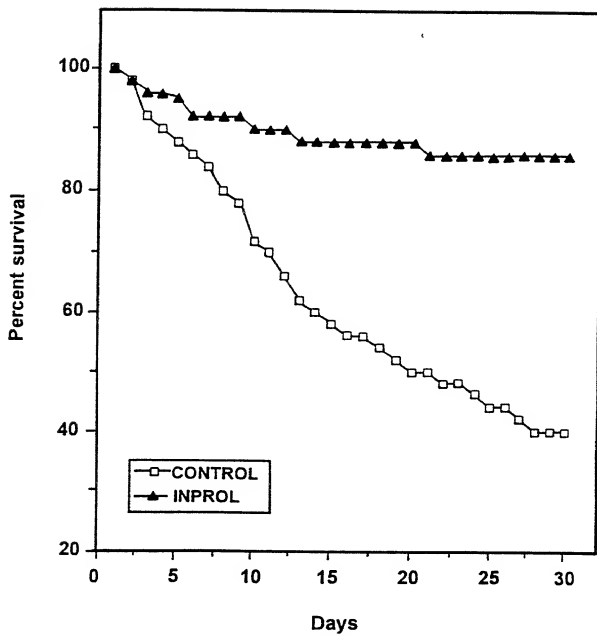


FIG. 9

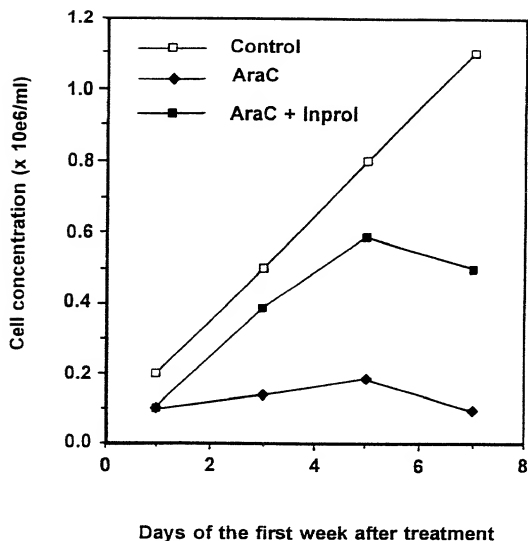


FIG. 10A

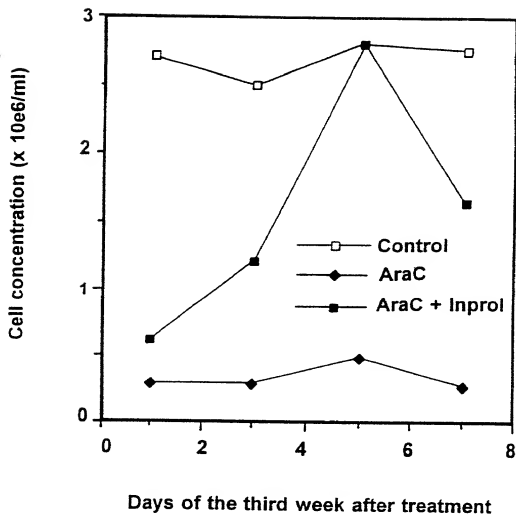


FIG. 10B

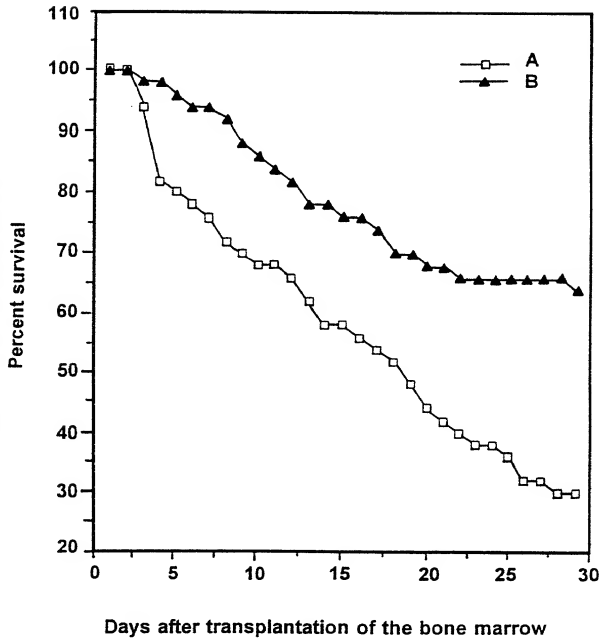


FIG. 11

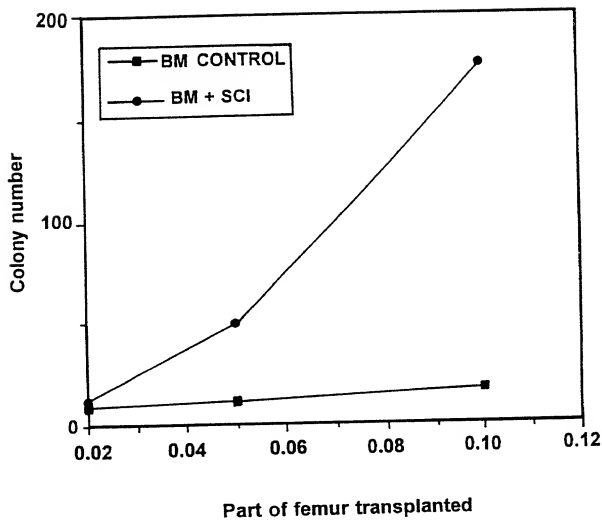


FIG. 12

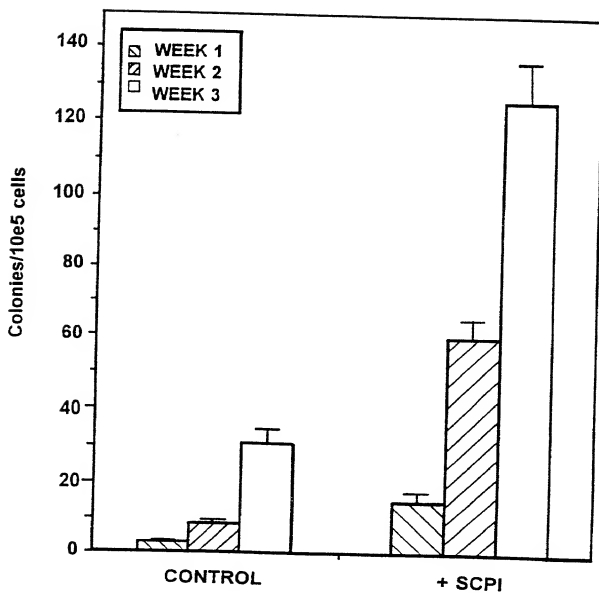


FIG. 13

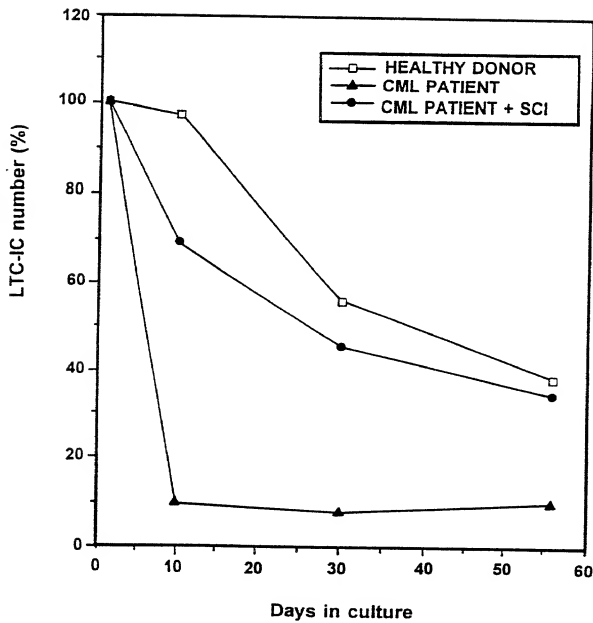
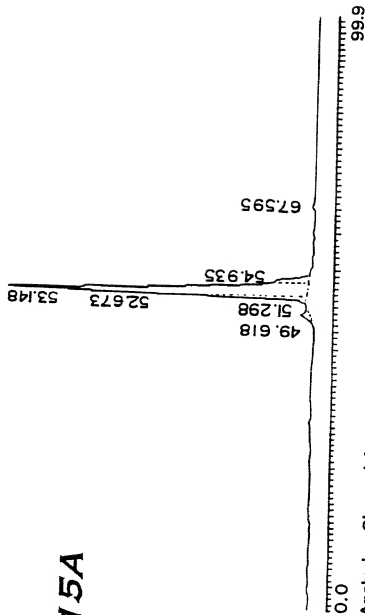
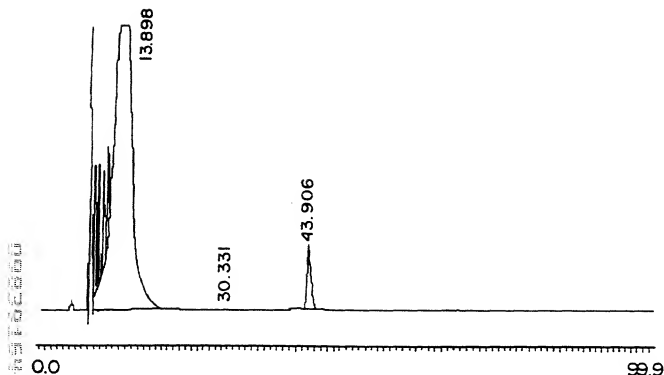


FIG. 14

FIG. 15A





Analysis: Channel A

Peak No.	Time	Type	Height(μ Y)	Area(μ Y-sec)	Area%
1	4.383	N1	3945	95125	0.119
2	5.080	N2	28639	330889	0.413
3	5.216	N3	49084	531867	0.665
4	7.980	N1	399424	1110511	1.389
5	8.100	Err	1203320	2882013	3.605
6	8.241	N3	443249	1506159	1.884
7	8.386	N4	481563	2185702	2.734
8	8.533	N5	412886	1826165	2.284
9	8.701	N6	321500	842122	1.053
10	8.745	N7	404661	1610380	2.014
11	8.995	N8	435765	2489721	3.114
12	9.316	N9	517790	4801831	6.007

FIG. 15B



FIG. 15C

[illegible]

FIG. 16B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Val His Leu Thr Pro Glu Glu Lys Ser Ala Val Thr Ala Leu Trp Gly Lys Val Asn Val
CIG CAC CTG ACT CCT CAG CAG AAG TCT GCC GTT ACT GCC CTG TGG GGT AAC CTG AAC CTG

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Asp Glu Val Gly Gly Glu Ala Leu Glu Arg Leu Val Val Tyr Pro Trp Thr Gln Arg
CAT GAA GTT GGT GGT GAG GTC CIG GGC AGG CTG CTG CTG TAC CTT TGG ACC CAG AGC

41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
Phe Phe Glu Ser Phe Gly Asp Leu Ser Thr Pro Asp Ala Val Met Gly Asn Pro Lys Val
TTC TTT CAG TCC TTT GGC GAT CIG TCC ACT CCT GAT CTT ATG GGC AAC CTT AAC CTG

61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
Lys Ala His Gly Lys Lys Val Leu Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp Asn
AAG CTT CAT GGC AAG AAA GTC CIG GCT GCT GCT TTT ACT GAT GGC CTG GCT CAC CTG CAC AAC

81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
Leu Lys Gly Thr Phe Ala Thr Leu Ser Glu Leu His Cys Asp Lys Leu His Val Asp Pro
CTC AAG GGC ACC TTT GCC ACA CIG ACT GAG CTG CAC TGT CAC AAG CTG CAC CTG GAT CTT

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120
Glu Asn Phe Arg Leu Leu Gly Asn Val Leu Val Cys Val Leu Ala His His Phe Gly Lys
CAG AAC TTC AGC CTG CIG GGC AAC CIG CTG TGT CIG CTG GGC CAT CAC TTT GCC AAA

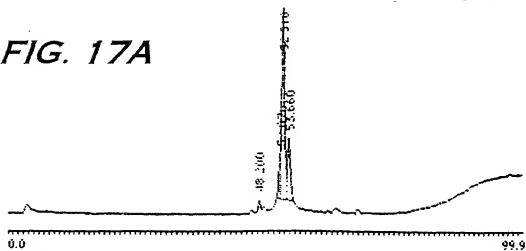
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140
Glu Phe Thr Pro Pro Val Gln Ala Ala Tyr Gln Lys Val Val Ala Gly Val Ala Asn Ala
GAA TTC ACC CCA CCA GTC CAG GCT GCT TAT CAG AAA GTC GTC GCT GCT GCT AAT GCC

141 142 143 144 145 146
Leu Ala His Lys Tyr His
CTG GCC CAC AAG TAT CAC

FIG. 16C

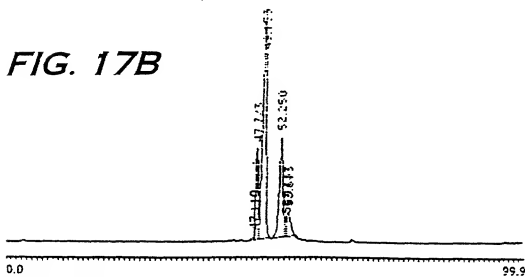
hIemA _Δ . pep	1	V	LS	AD	IN	20	H	Q	EA	30	E	E	EL	50	
hIemB _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemA _Δ . pep	1	V	LS	ED	EN	1	GRV	IN	DE	EA	30	E	E	EL	50
hIemA _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemA _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemB _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemA _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemB _Δ . pep	1	VH	TP	EA	1	GRV	IN	DE	EA	30	E	E	EL	50	
hIemA _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemB _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemA _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemB _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemA _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemB _Δ . pep	51	D	LS	AD	IN	70	H	Q	EA	80	E	E	EL	100	
hIemA _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemB _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemA _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemB _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemA _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemB _Δ . pep	101	H	Q	EA	1	GRV	IN	DE	EA	130	E	E	EL	150	
hIemA _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	
hIemB _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	
hIemA _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	
hIemB _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	
hIemA _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	
hIemB _Δ . pep	151	H	Q	EA	1	GRV	IN	DE	EA	180	E	E	EL	200	

FIG. 17A



Analysis: Channel A					
Peak No.	Time	Type	Height(μV)	Area(μV-sec)	Area%
1	48.200	N	1677	20438	1.515
2	52.076	N1	2425	116395	8.631
3	52.510	N2	32010	881490	65.569
4	53.660	N3	10066	330153	24.485
Total Area				1348474	99.958

FIG. 17B



Analysis: Channel A					
Peak No.	Time	Type	Height(μV)	Area(μV-sec)	Area%
1	47.110	N1	1727	24840	0.204
2	47.723	N2	75067	1738939	14.321
3	49.153	N3	188795	6206410	51.114
4	52.250	N1	81476	3046748	25.092
5	53.113	N2	13195	202166	1.664
6	53.613	N3	19211	914954	7.535
	65.753	N	818	8066	0.066
Total Area				12142123	99.996

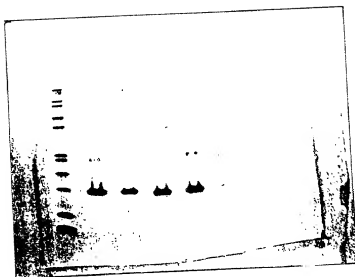


FIG. 18



FIG. 19A

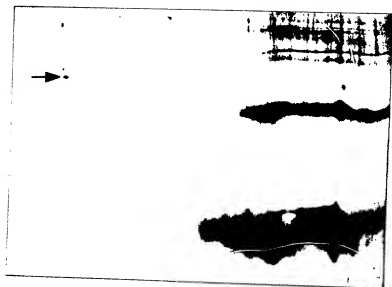


FIG. 19B

FIG. 20

